

Remarks

In the Office Action, dated May 22, 2007, claims 15-18 were rejected under 35 U.S.C. 102(b) as being anticipated by Tokuo et al. (JP 08-242151), and claims 19-24 were objected to as being dependent upon a rejected based claim. It was also suggested that claims 19-24 would be allowable if rewritten in independent form including all of the limitation of the base claim and any intervening claims.

In response to the Office Action, claims 15, 19, 20, 21 and 24 have been amended, claims 16-18 have been canceled, and claims 25-27 have been newly added to further clarify the feature of the present invention.

Following the suggestion by the Examiner, claims 19 has been amended in independent form including all of the limitations of the base claim and any intervening claims.

In paragraph 3 of the Action, it was indicated that Tokuo taught regulator means (circuitry that includes register 2 and square wave generators 3 and 5). In Tokuo, register 2 only stores square pulse width data and oscillation data, and square wave generators 3 and 5 only generate square waves in accordance with pulse width data and oscillation data from the register 2.

In claim 15 of the application, the regulator means is adjusted by statistical search method, and the statistical search method includes one or a combination of genetic algorithm, climbing-up method, annealing method, enumeration method, evolution policy, and taboo search method. The specific statistical search method is not disclosed by Tokuo.

In claim 27, the regulator means is adjusted based on a frequency axis and a time axis by genetic algorithm. Especially, the genetic algorithm is effective in an extensive search and eliminates needs for secondary information such as derivative

value except evaluation function value. Hence, it can be said that the regulator is substantially different from the combination of register 2 and square wave generators 3 and 5 in Tokuo.


In the present invention, the waveform reshaping means reshapes a sending waveform based on a result from the waveform analysis means in order to obtain a desirable waveform on a receiving side.

On the other hand, in Tokuo, square wave generators 3 and 5 only generate square waves in accordance with pulse width data and oscillation data from the register 2, and the square waves are added to a signal waveform. In Tokuo, the sending form is not adjusted, but the square waves are simply added to a signal form to compensate the transmission circuit loss.

Therefore, claims 15 and 27 of the present invention are not anticipated by Tokuo.

Reconsideration and allowance are earnestly solicited.

Respectfully Submitted,

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